

Name: _____

at1113exam: Expand, factor, and solve quadratics (v306)

1. Solve the equation.

$$(3x - 4)(7x - 5) = 0$$

2. Expand the following expression into standard form.

$$(9x + 2)^2$$

3. Expand the following expression into standard form.

$$(4x + 9)(4x - 9)$$

4. Expand the following expression into standard form.

$$(9x - 8)(3x - 4)$$

5. Factor the expression.

$$49x^2 - 81$$

6. Factor the expression.

$$x^2 - 15x + 56$$

7. Solve the equation.

$$10x^2 - 9x - 12 = 5x^2 - 3x - 4$$

8. Solve the equation with factoring by grouping.

$$12x^2 + 15x + 8x + 10 = 0$$